

CLAIMS

1. A molding machine having induction heating means for heating at least one part to be heated by  
5 induction heating, wherein

said induction heating means includes an induction heating part provided in said part to be heated, and an electric power supply control part that controls an amount of electric power supplied to the induction heating  
10 part, and

said electric power supply control part controls an electric power supplied to the induction heating part according to either one of a frequency control and an electric current control.

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2. The molding machine as claimed in claim 1, wherein

said part to be heated corresponds to a plurality of locations of a heating cylinder,

20 said electric power supply control part has a heating part controlling inverter to which an electric power is supplied from a direct current power source part, and

the heating part controlling inverter performs  
25 said frequency control or electric current control.

3. The molding machine as claimed in claim 2, wherein

said heating part controlling inverter performs  
30 said frequency control within a range of several Hz to several tens KHz.

4. The molding machine as claimed in claim 2,

wherein

said heating part controlling inverter performs  
said electric current control using a fixed frequency  
within a range of several Hz to several tens KHz.

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5. The molding machine as claimed in any one of  
claims 2 to 4, wherein

the molding machine has one or more motors, the  
motor is configured to be supplied with an electric power  
10 through a motor controlling inverter from a direct current  
electric power source part for motor control, and said  
motor controlling electric power source part is used  
commonly as said direct current electric power source part.

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6. The molding machine as claimed in claim 5,  
wherein

a switch is provided to at least one of said  
heating part controlling inverter and said motor  
controlling inverter.

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7. The molding machine as claimed in any one of  
claims 2 to 4, wherein

a voltage adjustment circuit is provided on an  
input side of said heating part controlling inverter.

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8. A temperature control method of a molding  
machine for heating at least one part to be heated in the  
molding machine by induction heating, wherein

a temperature control of the part to be heated  
30 is performed by controlling an amount of electric power  
supplied for induction heating according to either one of  
a frequency control and an electric current control.

9. The temperature control method of a molding machine as claimed in claim 8, wherein

said frequency control is performed within a range of several Hz to several tens KHz.

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10. The temperature control method of a molding machine as claimed in claim 8, wherein

said electric current control is performed at a fixed frequency within a range of several Hz to several

10 tens KHz.